

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Work Order ID 151634

Tuesday, October 04, 2016 1:06:46 PM

151634

Page 2

Item ID: D412-760-017

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Cabin Floor Protector (non-drilled)

Start Date: 10/4/2016 Start Qty: 4.00

4

Cust Item ID:

Required Date: 10/18/2016 Req'd Qty: 4.00

4

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D412-760-017
Location:FG040DAS
27
9-89
DAS
28
9-89

4X

DAS
38
9-89
OK

P.T.O.

OCT 12 2016

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.07

Quality Control

DAS
21
9-89

OCT 18 2016

VS 16/10/16

DAS
21
9-89

OCT 18 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☒ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; font-size: small;"> <tr> <td>Skid-tube ☐</td> <td>Cross tube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☒</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☒	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☒	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : <u>16-12-17</u>		Step #: <u>130</u>		QTY Effective : <u>0</u>		(DAS 38 9-89) Approval <u>99-89</u> <u>16/10/17</u>																			
Description Work Order Deviation				Disposition																					
found scratch on panel cc. handling <u>OK</u> DAS 38 9-89 OCT 17 2016				Scrap qty 1 D37333 B143464 - recut D3733-3 as per Drawing. and complete FAI. <u>OK</u> DAS 38 9-89 OCT 17 2016																					
				Completed By <u>PR 16/10/17</u>																					
				Lead hand / Supervisor Approval Verification																					
				QC / QA Coordinator Approval																					

Root Cause				FAULT CATEGORY			
☐ Environment	☐ Design	☐ Doc/Data	☐ Equip/Tooling	☐ Handling/Pre	☐ Material	☐ Internal Transport	☐ Tribal Knowledge
☐ LOA	☐ Substation	☐ Past Expiry Date	☐ Misidentified	☐ No Re-verification	☐ Operator	☐ Offset/Setup	☐ Supplier
				☐ Training	☐ Use for Testing	☐ Poor Information	☐ Rushing
				☐ Product Improvement	☐ Process Improvement	☐ Manufacturing Process	☐ Past Due
				☐ Pressure/Forced	☐ Bending	☐ Centre Not Concentric	☐ Cracks
				☐ Crimp/Kink/Ripple/Wave	☐ Cuffs	☐ Crushing	☐ Heat Treat
				☐ Wave/Twist in Tube	☒ Marks/Chatter		
OTHER : _____							

Tuesday, October 04, 2016 1:06:49 PM

151634

D412-760-017

Required Date: 10/18/2016

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3580-1		Manufactured	No			110	Each	17.0000	6	24			DAS
D3580-1									**	7 XB150957			6A 9-89
Joggle Bracket												OCT 06 2016	9-89

DAS
27
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST043	17	
149564	7	
150327	10	

D3628-1

**

~~OCT 06 2016~~

DAS
628
9-89 9-89

DAS
27
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
FG	10	
83587	10	
ST046	120	
145255	120	
ST051A	232	
142000	0	
149001	232	

D3628-3

**

OCT 06 2016

DAS 28
69-89

DAS
27
9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST046	200	
148674	200	

D3788-1

**

24

157637

9-9 DAS

OCT 12 2016

DAS
28
9-8'

DQA: _____ Date: _____



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QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, October 04, 2016 1:06:49 PM

Page 2

Work Order ID: 151634

151634

Parent Item: D412-760-017

D412-760-017

Parent Item Name: Cabin Floor Protector (non-drilled)

Start Date: 10/4/2016

Required Date: 10/18/2016

Start Qty: 4.00

Required Qty: 4.00

D3788-2

Manufactured No

110 Each

1.0000

1 4

D3788-2

Cabin Floor Protectors

**

3XB 151634

OCT 06 2016

DAS 28
6 9-89

Location

Loc Qty

Loc Code

ST540A

1

143670

1

D3788-3

Manufactured No

110 Each

4.0000

1 4

D3788-3

Cabin Floor Protectors

**

OCT 06 2016

DAS 28
6 9-89

Location

Loc Qty

Loc Code

ST540A

4

148464

4

D3788-4

Manufactured No

110 Each

4.0000

1 4

D3788-4

Cabin Floor Protectors

**

OCT 06 2016

DAS 28
6 9-89

Location

Loc Qty

Loc Code

ST540A

4

139355

4

MS24694-S100

Purchased No

110 Each

22.0000

6 24

MS24694-S100

Flat Head Screw

**

OCT 06 2016

DAS 28
6 9-89

Location

Loc Qty

Loc Code

ST283

22

m134574

1

m135566

21

DAS 27
9-89

1
28

Tuesday, October 04, 2016 1:06:49 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
				Completed By _____					
				Lead hand / Supervisor Approval Verification					
				QC / QA Coordinator Approval					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, October 04, 2016 1:06:49 PM

Page 3

Work Order ID: 151634

151634

Parent Item: D412-760-017

D412-760-017

Parent Item Name: Cabin Floor Protector (non-drilled)

Start Date: 10/4/2016

Required Date: 10/18/2016

Start Qty: 4.00

Required Qty: 4.00

MS24694-S54

Purchased

No

110

Each

81.0000

14

56

MS24694-S54

SCREW

**

OCT 06 2016

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

81

m135672

81

NAS1149D0363J

Purchased

No

110

Each

850.0000

28

112

NAS1149D0363.J

Washer

**

OCT 06 2016

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

336

m134055

336

ST263

514

m134955

58

m135297

456

NAS1149D0463J

Purchased

No

110

Each

3,300.000

12

48

NAS1149D0463.J

Washer

**

OCT 06 2016

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

150

M132035

15

M134508

32

M135056

103

ST260a

2000

M135671

1000

M135767

1000

ST263

1150

M135390

15

M135407

135

M135530

1000

48

Tuesday, October 04, 2016 1:06:50 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Work Order ID 151634

151634

Tuesday, October 04, 2016 1:06:46 PM

Item ID: D412-760-017 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Cabin Floor Protector (non-drilled)

Start Date: 10/4/2016 Start Qty: 4.00 ***4*** Cust Item ID:
 Required Date: 10/18/2016 Req'd Qty: 4.00 ***4*** Customer:

Reference:

Approvals: Process Plan: DAS 21 9-89 Date: OCT 04 2016 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start ***NR1***
 Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr	OCT 06 2016							
IIN-D412-760	G		DAS	6					
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP D412-760-017 CHG001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.02							
Quality Control									

DAS
21
9-89

OCT 06 2016

4

Reference

DART AEROSPACE LTD.

IIN-D412-760

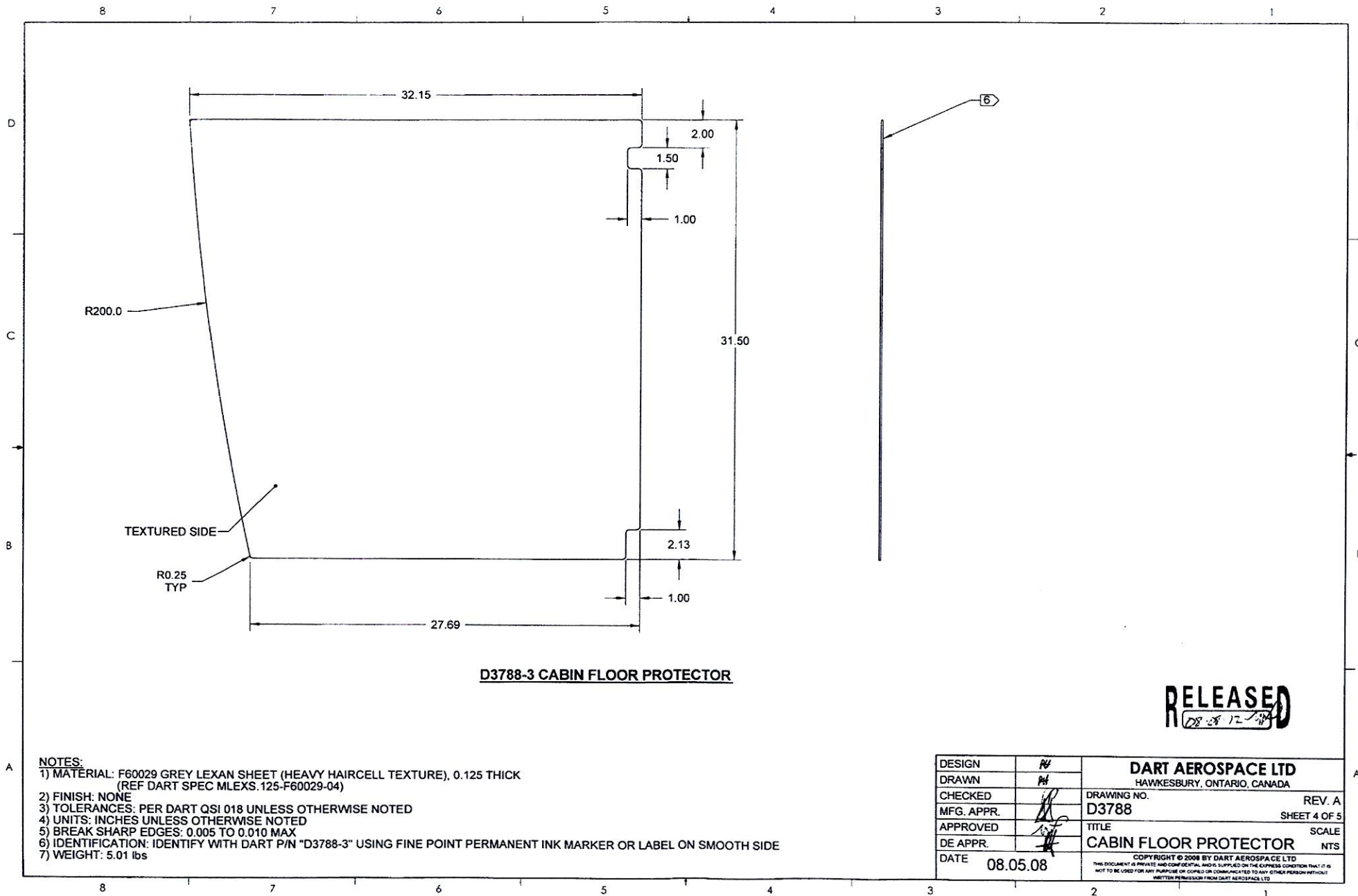
Page 41 of 43

5.0 PARTS LIST

Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Part Number	Description
X					D412-760-011	CABIN FLOOR PROTECTOR KIT
	X				D412-760-013	CABIN FLOOR PROTECTOR KIT
		X			D412-760-015	CABIN FLOOR PROTECTOR KIT
			X		D412-760-017	CABIN FLOOR PROTECTOR KIT
				X	D412-760-019	CABIN FLOOR PROTECTOR KIT
1					D3574-1	CABIN FLOOR PROTECTOR
1					D3574-2	CABIN FLOOR PROTECTOR
	1				D3574-3	CABIN FLOOR PROTECTOR
	1				D3574-4	CABIN FLOOR PROTECTOR
		1			D3574-5	CABIN FLOOR PROTECTOR
		1			D3574-6	CABIN FLOOR PROTECTOR
1					D3575-1	CABIN FLOOR PROTECTOR
1					D3575-2	CABIN FLOOR PROTECTOR
	1				D3575-3	CABIN FLOOR PROTECTOR
	1				D3575-4	CABIN FLOOR PROTECTOR
		1			D3575-5	CABIN FLOOR PROTECTOR
		1			D3575-6	CABIN FLOOR PROTECTOR
6	4	6	6	6	D3580-1	JOGGLE BRACKET
			1		D3788-1	CABIN FLOOR PROTECTOR
			1		D3788-2	CABIN FLOOR PROTECTOR
			1		D3788-3	CABIN FLOOR PROTECTOR
			1		D3788-4	CABIN FLOOR PROTECTOR
14	40	14	14	10	D3628-1	CUPPED WASHER
6	8	6	6		D3628-3	CUPPED WASHER
				1	D4122-1	FLOOR PROTECTOR, FORWARD
				1	D4122-3	FLOOR PROTECTOR, AFT
28		28	28		NAS1149D0363J	WASHER (AN960JD10)
12		12	12		NAS1149D0463J	WASHER (AN960JD416)
14		14	14		MS24694S54	SCREW
6		6	6		MS24694S100	SCREW

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Revision: **G**
Date: 13.01.03



RELEASED
 28-28-12-14

- NOTES:**
- 1) MATERIAL: F60029 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE), 0.125 THICK (REF DART SPEC MLEXS.125-F60029-04)
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3788-3" USING FINE POINT PERMANENT INK MARKER OR LABEL ON SMOOTH SIDE
 - 7) WEIGHT: 5.01 lbs

DESIGN	RV	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	PH		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D3788	SHEET 4 OF 5
APPROVED		TITLE	SCALE
DE APPR.		CABIN FLOOR PROTECTOR	NTS
DATE	08.05.08	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	